

CLAIMS

1. A magnetic toner comprising magnetic toner base particles each containing at least a binder resin and a
5 magnetic body, wherein:

- (i) the binder resin contains a polyester unit;
- (ii) the toner has a weight average particle size (D4) of 5.0 to 9.0 μm ;
- (iii) the toner has a true specific gravity of 1.3
10 to 1.7 g/cm^3 ;
- (iv) the toner has a saturated magnetization of 20 to 35 Am^2/kg in a magnetic field of 796 kA/m ;
- (v) the toner contains 60 number% or more of toner having a circularity of 0.93 or more; and
- 15 (vi) a dielectric loss tangent ($\tan\delta$) of the toner at 100 kHz satisfies the following formula (1).

[Formula]

$$(\tan\delta_H - \tan\delta_L)/\tan\delta_L \leq 0.20 \quad (1)$$

[In the formula, $\tan\delta_H$ represents a dielectric loss
20 tangent of the toner at a glass transition temperature ($^{\circ}\text{C}$) + 10 $^{\circ}\text{C}$ and $\tan\delta_L$ represents a dielectric loss tangent of the toner at the glass transition temperature ($^{\circ}\text{C}$) - 10 $^{\circ}\text{C}$.]

25 2. A magnetic toner according to claim 1, wherein the toner contains 75 number% or more of toner having a circularity of 0.93 or more.

3. A magnetic toner according to claim 1 or 2,
wherein a dielectric loss tangent ($\tan\delta$) of the toner
at 100 kHz and 40°C is 2×10^{-3} to 1×10^{-2} .

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4. A magnetic toner according to any one of claims
1 to 3, wherein a dielectric constant of the toner at
100 kHz and 40°C is 15 to 40 (pF/m).

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5. A magnetic toner according to any one of claims
1 to 4, wherein the magnetic body has a number average
particle size of 0.08 to 0.30 μm .

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6. A magnetic toner according to any one of claims
1 to 5, further comprising 30 mass% or more of a
component having a molecular weight of 10,000 or less
in a molecular weight distribution of the toner.

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7. A magnetic toner according to any one of claims
1 to 6, wherein the binder resin contains two or more
kinds of resins different from each other in softening
point.

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8. A magnetic toner according to any one of claims
1 to 7, wherein:

the toner is externally added with an inorganic
fine powder; and

the inorganic fine powder contains two or more kinds of metal oxides each having a number average particle size of 100 nm or less.

- 5 9. A magnetic toner according to claim 8, wherein
the inorganic fine powder contains at least a metal
oxide (I) having a dielectric constant larger than that
of the toner by 5 pF/m or more and a metal oxide (II)
having a dielectric constant smaller than that of the
10 toner by 5 pF/m or more.